# **Light Meters**

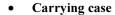
# The Cooke Corporation

## cal-LIGHT 400 and 400F

# Calibrated Precision Lightmeters

## **Description**

- **Light Sensor (Model 400)** Ergonomically designed angled sensor allows simultaneous measurement and readout without interference from the operator. The silicon photodiode with photopic and cosine correction assures precise measurements.
- Light Sensor (Model 400F) The forward position of the light sensor which was designed specifically for use in museums and art galleries, allows the user to accurately measure the direct light falling down onto a painting or any other works of art
- **Display** Large, 10mm (3/8") LCD with units of measurement and low battery indicator offers comfortable reading during measurement.
- "ON" and "HOLD" button Click to display reading. Hold to "freeze" display. Auto power off.
- **Sliding Coverplate** Provides access to 9V battery and to the switch for selecting the measuring units (fc or lux)
- Calibration seal is affixed to every cal-LIGHT lightmeter after calibration to assure authenticity and prevent unauthorized alterations.



• Built-in, hands free stand (cal-LIGHT 400 only)



Model 400

#### For Museums and Art Galleries



Model 400F

# **Specifications**

#### **Measuring Range**

Autoranges 0.1 fc or lux to 40,000 fc or lux

#### Unite

Choose fc or lux with user selectable switch located in battery compartment

### **Accuracy**

a) Intensity linearity: 2%

b) Photopic: Better than 1.0% of CIE curve

c) Cosine error: Less than  $\pm 1.0\%$  up to an incident angle of  $\pm 85^{\circ}$ 

d) Overall accuracy  $\pm 5\%$  of displayed value

## **Calibration**

Calibrations and recalibrations are performed by COOKE and are traceable to NIST Standards. The photopic response of the calibrated sensor matches the CIE standard observer curve response to within 1% of the reading when using a standard tungsten source at  $2856^{\circ}K$ 

### **Light Sensor**

Silicon photodiode with photopic filter and cosine corrector Diameter 10 mm, angled 70° from display face (Model cal-LIGHT 400)

## **Temperature Ranges**

Operation: 32° to 130°F (0° to 55°C) Storage: -4° to 160°F (-20° to 70°C)

Cooke Part Number	NSN
cal-Light 400	6220-01-466-7567
cal-Light 400F	6220-01-466-7572